



# Oil Pipeline Challenges

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Representing

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# Colonial Pipeline Company

- Largest, by volume, refined liquids product pipeline in the world
- Operates and maintains over 5,500 miles of pipelines – ranging from 6-inch to 40-inch lines
- Delivers on average 2.4 million barrels per day in the Southeast and East Coast market areas
- Approximately 20% of all refined products consumed in the U.S. are transported by Colonial



# Mission of Liquid Pipelines

We transport a toxic, hazardous, flammable, known carcinogen from suppliers to customers and we do so in an ever changing regulatory environment, along increasingly crowded rights of way, for the benefit of an increasingly risk-intolerant public.

**Our mission is to accomplish  
this task safely!**

# Challenge Areas

- Raising the effectiveness and efficiency of pipeline integrity efforts
  - Improve the ability to interpret and classify internal inspection data
  - Develop knowledge of interaction between anomalies and pipe features
  - Broaden knowledge of impact on pipe integrity by environmental factors



# Challenge Areas

- Maintaining integrity in areas where right of way competes with other land use priorities
  - Application of current proven technology to improve coverage and reduce costs
  - Better tools/knowledge base to predict pipeline response to encroachment activity
  - Affordable simple and effective leak detection

# Challenge Areas

- Meeting the increasing demands of the customers with existing infrastructure
  - Utilize technology to increase capacity of existing infrastructure
  - Reduce energy demands for operations
  - Better predict effect of changing operations on fatigue life of pipelines



# Industry Actions

- AOPL and 11 Member Companies Joined PRCI in 2003
- PRCI Restructuring to Increase Focus on Current Needs of Industry
- Engaging Government and Others in Co-Funded Research and Development Efforts

# Final Thoughts

- Technology is only an enabler, but can provide a powerful tool for driving pipeline performance improvements
- Products of research and development need to be commercially viable and affordable
- Continued research investment must be contingent on measurable, tangible value provided to industry